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Leblang et al.

[54] **DYNAMIC SOFTWARE VERSION AUDITOR WHICH MONITORS A PROCESS TO PROVIDE A LIST OF OBJECTS THAT ARE ACCESSED**

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[57] **ABSTRACT**

A data processing system and method features an object selector including an auditor for recording, as an audit record, which versions of objects are accessed by a processor during a data processing process. Each derived object is associated with an audit record. A system build process starts the auditor prior to executing commands which produce derived objects, and stops the auditor when those commands are completed. The process also includes any arbitrary sequence of commands. An audit cache memory stores the most recent audit entries made by the auditor while producing an audit record. A linker is also provided for linking a common identifying label to each object version whose identity is recorded as an entry in an audit record associated with the identifying label. An audit record comparator is provided for determining the difference between source object versions used in building two or more derived object versions.

20 Claims, 18 Drawing Sheets